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Exhib. B

Db MSPOLVPELPLMOLYPERMDNNSRLMOQHILMVGVELLKULPDD 112

RESULT 3

MTCP2_HUMAN STANDARD; PRT; 107 AA.

AC P56278;

DT 15-JUL-1998 (Rel. 36, Created)

DT 15-JUL-1998 (Rel. 36, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE P13 MTC-1 protein (Mature T-cell proliferation-1 type B1) (MTC-1 type B1) (P13MTC1).

GN MTC1 OR C6.1B.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

OX NCBI_TaxID=9606;

XP 1

SEQUENCE FROM N.A.

RC TISSUE=T-cell;

RX MEDLINE=93368950; PubMed=8361760;

RA Stern M.-H., Soulier J., Rosenzweig M., Nakahara K., Canki-Klain N., Aurias A., Sigaux F., Kirsch I.R.;

RT "MTC-1: a novel gene on the human chromosome Xq28 translocated to the T cell receptor alpha/delta locus in mature T cell proliferations";

RL Oncogene 8:2475-2483(1993).

XP 2

X-RAY CRYSTALLOGRAPHY (2.0 ANGSTROMS).

RX MEDLINE=98188217; PubMed=9520380;

RA Fu Z.O., du Bois G.C., Song S.P., Kulikovskaya I., Virgilio L., Robstein J.L., Croce C.M., Weber I.T., Harrison R.W.;

RT "Crystal structure of MTC-1: implications for role of TCL-1 and MTC-1 in T cell malignancies";

RL Proc. Natl. Acad. Sci. U.S.A. 95:3413-3418(1998).

CC -1- ALTERNATIVE PRODUCTS:

OS Event=Alternative splicing; Named isoforms=2;

CC Name=Long; Synonyms=Type B1, P13 MTC1;

CC IsoId=P56278-1; Sequence=Displayed;

CC Name=Short; Synonyms=Type A, P8 MTC1;

CC IsoId=P56277-1; Sequence=External;

CC -1- TISSUE SPECIFICITY: Not found at a significant level in any tissue.

CC -1- DISEASE: Detected in T-cell leukemia bearing a t(X;14) translocation. Plays a key role in T-cell prolymphocytic leukemia.

CC -1- SIMILARITY: Belongs to the TCL1 family.

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CC -----

DR EMBL; Z24459; CAA80828.1; -

DR PIR; S78532; S78532.

DR PDB; 1A1X; 27-MAY-98.

DR PDB; 1QTT; 19-JAN-01.

DR PDB; 1QTU; 19-JAN-01.

DR Genew; HGNC:7423; MTC1.

DR MIM; 300116; -

DR GO; GO:0008283; P-cell proliferation; TAS.

DR GO; GO:0000074; P-regulation of cell cycle; TAS.

DR InterPro; IPR004832; TCL1_MTC1.

DR Pfam; PF01840; TCL1_MTC1; 1.

DR ProDom; PD015575; TCL1B; 1.

KW Proto-oncogene; Chromosomal translocation; Alternative splicing; 3D-structure.

FT STRAND 12 17

FT TURN 18 19

FT STRAND 20 23

FT TURN 24 25

FT STRAND 28 35

FT STRAND 40 45

FT HELIX 57 60

FT TURN 61 62

FT STRAND 68 72

FT TURN 73 75

FT STRAND 76 79

FT TURN 80 81

FT STRAND 84 93

FT TURN 94 95

FT STRAND 96 103

SO SEQUENCE 107 AA; 12600 MM; C00967ELAECDDDA CRC64;

Query Match 36.1%; Score 221; DB 1; Length 107;

Best Local Similarity 40.2%; Pred. No. 1e-17;

Matches 43; Conservative 23; Mismatches 39; Indels 2; Gaps 1;

Db 61 LTSOLPLMOLYPERMDNNSRLMOQHILMVGVELLKULPDD 107

Qy 67 GPSLPIPMOLYPERMDNNSRLMOQHILMVGVELLKULPDD 113

Db 3 GEDVGAPDHLMWQEGIYDEYQRTWVAVEETFLRAV--QQIQVPLGDARSHL 60

Qy 7 GEAVTHPDPLMAMEKVIYDEKQKAMPLTIEIKDRLQRLVLRBDVYLGREMPQI 66

Db 3 GEDVGAPDHLMWQEGIYDEYQRTWVAVEETFLRAV--QQIQVPLGDARSHL 60

Qy 67 GPSLPIPMOLYPERMDNNSRLMOQHILMVGVELLKULPDD 113

Db 61 LTSOLPLMOLYPERMDNNSRLMOQHILMVGVELLKULPDD 107

RESULT 4

MTCP2_MOUSE STANDARD; PRT; 107 AA.

AC Q60945;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE P13 MTC-1 protein (Mature T-cell proliferation-1 type B1) (MTC-1 type B1) (P13MTC1).

GN MTC1 OR C6.1B.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

XP 1

SEQUENCE FROM N.A.

RC TISSUE=T-cell;

RX MEDLINE=96202516; PubMed=8634440;

RA Madani A., Choukroun V., Soulier J., Cacheux V., Claissse J.-F., Valensi F., Daliphard S., Cazin B., Levy V., Leblond V., Daniel M.-T., Sigaux F., Stern M.-H.;

RT "Expression of p13MTC1 is restricted to mature T-cell proliferations with t(X;14) translocations";

RL Blood 87:1923-1927(1996).

CC -1- ALTERNATIVE PRODUCTS:

OS Event=Alternative splicing; Named isoforms=2;

CC Name=Long; Synonyms=Type B1, P13 MTC-1;

CC IsoId=Q60945-1; Sequence=Displayed;

CC Name=Short; Synonyms=Type A, P8 MTC-1;

CC IsoId=Q61908-1; Sequence=External;

CC -1- TISSUE SPECIFICITY: Not found at a significant level in any tissue.

CC -1- SIMILARITY: Belongs to the TCL1 family.

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CC -----

DR EMBL; U32332; AAC52444.1; -

DR HSSP; P56278; 1A1X.

DR MGD; MGI:102699; Mtc1p1.

DR InterPro; IPR004832; TCL1_MTC1.